

## Title (en)

Switched full duplex ethernet network and method of operating thereof

## Title (de)

Geschaltetes voll duplex-Ethernet Kommunikationsnetz und Verfahren dafür

## Title (fr)

Reseau de communication de type ethernet full duplex commute et procede de mise en oeuvre de celui-ci

## Publication

**EP 1309130 A1 20030507 (FR)**

## Application

**EP 02292704 A 20021030**

## Priority

FR 0114263 A 20011105

## Abstract (en)

The Ethernet network comprises source subscriber and destination subscriber connected together by a physical link via a switch, and via a virtual link (VL). The virtual link is the conceptual representation of link between the source equipment and the destination equipment, including a system for segregation between the virtual links and the allocation of a pass band via the virtual link. <??>The switched full duplex Ethernet communication network comprises at least one source subscriber and at least one destination subscriber connected together by at least one physical link via a switch, and via a virtual link (VL). The virtual link is the conceptual representation of link between the source equipment and the destination equipment, including a system for segregation between the virtual links and the allocation of a pass band via the virtual link. It also includes a system for multiplexing the virtual links on the physical link issuing from this equipment. Each transmitted frame carries a field which identifies the virtual link to which it belongs. Each destination equipment comprises a device for subscribing to receive from at least one virtual link, assuring the segregation between virtual links.

## Abstract (fr)

L'invention décrit un réseau de communication de type Ethernet full-duplex commuté comprenant au moins un équipement abonné source (13) et au moins un équipement abonné destinataire (14) reliés entre eux par au moins un lien physique au travers d'au moins un commutateur et par au moins un lien virtuel (VL), qui est la représentation conceptuelle d'une liaison d'un équipement source (13) vers au moins un équipement destinataire (14), dans lequel chaque équipement, émetteur de trames Ethernet, comporte : des moyens de ségrégation entre les liens virtuels et d'allocation d'une bande passante par lien virtuel, des moyens de multiplexage des liens virtuels sur le lien physique issu de cet équipement, chaque trame émise possédant un champ qui identifie le lien virtuel auquel elle appartient. <IMAGE>

## IPC 1-7

**H04L 12/44**; **H04L 12/413**; **H04L 12/46**; **H04L 12/56**

## IPC 8 full level

**H04L 12/851** (2013.01); **H04L 12/931** (2013.01)

## CPC (source: EP US)

**H04L 47/24** (2013.01 - EP US); **H04L 49/351** (2013.01 - EP US)

## Citation (search report)

- [YA] EP 0835009 A2 19980408 - TOSHIBA KK [JP]
- [A] WO 9953719 A1 19991021 - WARPSPEED COMMUNICATIONS [US]
- [Y] RINDOS A ET AL: "A performance evaluation of emerging Ethernet technologies: switched/high-speed/full-duplex Ethernet and Ethernet LAN emulation over ATM", SOUTHEASTCON '96. BRINGING TOGETHER EDUCATION, SCIENCE AND TECHNOLOGY., PROCEEDINGS OF THE IEEE TAMPA, FL, USA 11-14 APRIL 1996, NEW YORK, NY, USA, IEEE, US, 11 April 1996 (1996-04-11), pages 401 - 404, XP010163567, ISBN: 0-7803-3088-9

## Cited by

FR3045256A1; CN106878374A; EP2309682A1; RU2497292C2; FR2920623A1; US8503439B2; US10193830B2; WO2009030706A1

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## DOCDB simple family (application)

**EP 02292704 A 20021030**; CA 2410741 A 20021031; DE 60225223 T 20021030; FR 0114263 A 20011105; US 28791202 A 20021104; US 71746403 A 20031121; US 71754903 A 20031121